Reissued October 29, 2002 Supersedes October 28, 1997 Matls, IM 446

INSPECTION AND ACCEPTANCE OF PLASTIC PIPE

GENERAL

Plastic pipe shall be manufactured from Polyethylene (PE), Poly vinyl chloride (PVC), or Acrylonitrile-Butadiene-Styrene (ABS) material. Plastic PE pipe, couplings, and fittings for storm sewers, sanitary sewers or culverts shall meet the requirements of Section 4146 of the Standard Specification of the Iowa Department of Transportation.

Acceptance of these materials will be based on certification of compliance from an approved manufacturing plant and from test results on periodic, random, monitor samples or on project sampling and testing.

MANUFACTURING PLANT APPROVAL

Application for plant approval shall be made, in writing, to the Office of Materials in Ames, Iowa, and shall include product technical information and a description of product Quality Control procedures. One sample of each diameter pipe to be approved shall be submitted with the application. The length of the sample shall be at least 3.5 times the internal diameter.

Approval will be based on sample test results and evaluation of Quality Control procedures. The District Materials Engineer responsible for material acceptance in the plant location area may inspect plant facilities and procedures and recommend approval when assured qualifications are met.

Plants approved for plastic pipe for sewers or culverts are listed in Appendix A.

CERTIFICATION PROCEDURE

The approved manufacturer shall furnish, with each shipment, a certified bill of materials or invoice which identifies the contractor, project number, number of meters (feet) of pipe of each size, and number of pieces of couplings and fittings. Jobbers or other suppliers of material from an approved manufacturer shall furnish the above information along with a certificate of compliance from the approved manufacturer. The certificate of compliance shall be stated as follows:

The materials itemized in this shipment are certified to meet the requirements of the applicable specifications of the lowa Department of Transportation.
(Authorized Signature and Date)
A responsible company representative shall sign the certification statement.

One copy of the certified bill of materials or invoice shall accompany each shipment and shall remain at the delivery point for the project inspector or shall be forwarded directly to the project engineer. In addition, one copy shall be forwarded to the District Materials Engineer with project responsibility and one copy to the Office of Materials in Ames.

PROJECT SAMPLING AND TESTING FOR PLASTIC PIPE NOT LISTED IN APPENDIX A

Approval samples taken for a project shall consist of the same number and lengths as described for plant approval. The sample shall contain the date and plant code.

Whenever possible, samples shall be taken at the plant or from stock prior to shipment to the project. The supplier should notify the District Materials Engineer with project responsibility, of pending shipments so that sampling can be arranged. Shipments of materials that have not been sampled for the project shall include extra lengths for sampling at the project site.

MONITOR SAMPLING AND TESTING

The District Materials Engineer will be responsible for designing and performing a monitor inspection and testing program for each approved plant. The amount of monitor sampling and testing will generally depend upon the amount of material supplied by each manufacturer and upon the time since the last sample was obtained.

A monitor test sample shall consist of the same number and lengths as described for plant approval. Deficient test results or poor workmanship on any monitor sample may be considered sufficient cause for removing a plant from the list of approved suppliers.